Figures 1-4 are block diagrams of systems for purifying waste oil in accordance with various embodiments of the inventive process.

Figure 5 is schematic diagram of a heating step using microwave heating.

Figure 6 is a flow chart of the process steps used for purifying waste oil in accordance with one embodiment of the inventive process.

Figure 7a is a flow chart of the process steps used in a process of calibrating a dielectric net oil analyzer.

Figure 7b is a flow chart of the process steps used for purifying waste oil in accordance with one embodiment of the inventive process.

Figure 8 is a flow chart of the process steps used for purifying waste oil.

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Figure 8 is a flow chart of the process steps used for purifying waste oil.

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Figure 7a is a flow chart of the steps used in a process of calibrating a dielectric net oil analyzer. The process starts, step 200, by preparing a plurality of known oil water mixtures at step 202. A dielectric constant is determined for each of the plurality of known oil water mixtures at step 204. This dielectric net oil analyzer is inserted into each of the plurality of known oil water mixtures. At step 206 a table is prepared that correlates an oil water mixture ratio to a dielectric constant which ends the process at step 208. In one embodiment, an oil water mixture is one hundred percent water and a second oil water mixture is one hundred percent oil.

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Figure 7[a] is a flow chart of the steps used in a process of calibrating a dielectric net oil analyzer. The process starts, step 200, by preparing a plurality of known oil water mixtures at step 202. A dielectric constant is determined for each of the plurality of known oil water mixtures at step 204. This dielectric net oil analyzer is inserted into each of the plurality of known oil water mixtures. At step 206 a table is prepared that correlates an oil water mixture ratio to a dielectric constant which ends the process at step 208. In one embodiment, an oil water mixture is one hundred percent water and a second oil water mixture is one hundred percent oil.